DevOps Design Discussion

Current concensus identified in bold.

1. Instance Provider
    a. RDS
        i. Sizing
            1. 1 TB
            2. db.r4.xlarge (4 vCPU, 30.5 GB RAM)
    b. Aurora
        i. More expensive, easy to migrate to.
    c. Aurora Serverless
        i. Prototyping, but not ready for production consideration.
    d. DIY Ec2
        i. Dramatically increased management complexity.
2. Scaling (Deferred)
    a. Read replicas
    b. Customer shards
    c. Aurora vertical scaling, multi-master(preview)
3. Connectivity

    ☑ Spark cluster

    ☑ chi-bastion-03

    ☑ Tools (on bastion)

    a. Connection is CNAMEd through route53, and therefore the client sslmode = verify-ca. The hostname cannot be verified in this case, but the cert is still verified.
4. Use cases
    a. Data load (initial)
    b. Schema control
    c. Read only
    d. Insert only? (service worker / role)
    e. Admin (devops?)
5. Permissions Groups
6. Authentication / Password managment
    a. IAM
    b. SSM parameter store